Scientific note
"Stages of creating an artificial planet"

Part I:

The creation of an artificial planet is one of the most challenging tasks. It is often categorized as science fiction, yet in reality, it is simply a massiveчbut achievableчproject. However, at present, we are still far from this goal. As of 2025, there is little public interest in the topic. Discussions are confined to niche circles, which is understandable. Such a project would take centuries, if not millennia, to complete, placing it far beyond short-term prospects. The lack of technology, a theoretical foundation, and a clear leader also hinder the advancement of the idea. Therefore, this work aims to contribute, even modestly, to expanding the theoretical groundwork. hort-term prospects. The lack of technology, a theoretical foundation, and a clear leader also hinder the advancement of the idea. Therefore, this work aims to contribute, even modestly, to expanding the theoretical groundwork.

Part II:

The creation process can be divided into several stages:

– Theoretical development. Conducting calculations, setting objectives, performing studies, and creating simulations. This groundwork will provide the necessary basis for project implementation.
– Risk assessment. Identifying potential construction challenges, evaluating risks to Earth and space environments, and developing mitigation strategies for such issues.
- Resources. Development of space robotics for material extraction, search or creation of energy sources.

Construction:

– Gravity. Without gravity, creating a planet is impossible. A gravitational source must be established to assemble the planet and regulate its force.
– Magnetic field. The magnetic field serves as primary protection against solar wind.
– Lithosphere.

Terraforming:

– Atmosphere. The atmosphere serves as the foundation for life on the planet.
– Hydrosphere, biosphere.
– Infrastructure. Power plants and cities are essential for comfortable living on the planet.

Part III:

The purpose of this work is to demonstrate that this goal is achievable. The research will continue to develop.

Friedrich Evrasaevsky

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